

Work Order ID 54295 -3

December 7, 2009 2:31:36 PM



Split

Accept



Setup Start



Stop



Item ID: D412-769-044

Revision ID:

Item Name: Aft Facing Seat Assembly, RH

Start Date: 07/12/2009 Start Qty: 5.00

Required Date: 21/12/2009 Req'd Qty: 5.00



Cust Item ID:

Customer:

Reference:

Run Start



Stop



Approvals: Process Plan:

Date: 12/1

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Set Up/  
Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
StampSequence ID/  
Work Center IDOperation  
Description

Draw Nbr

Revision Nbr

IIN D412-769

Rev B

100

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

0.00

110

Small Fab



Small Fab

Memo

0.00

Small Fab

1- assemble as per dwg D412-769-2

SP 10/01/13

3

120

QC5- Inspect part completeness to step on W/O



QC

Memo

0.00

0.00

Quality Control

=&gt; 51061/13

B  
A+1

## Work Order ID 54295

December 7, 2009 2:31:36 PM

Item ID: D412-769-044

Accept

Setup Start

Stop

Revision ID:

Item Name: Aft Facing Seat Assembly, RH

Start Date: 07/12/2009 Start Qty: 5.00

Required Date: 21/12/2009 Req'd Qty: 5.00

Cust Item ID:

Customer:

Reference:

Run Start

Stop

Approvals: Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/  
Work Center ID

130



Powdercoat

Powder Coating

Operation  
Description

Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3

Set Up/  
Run Hours

0.00

0.00

Draw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

START: 11:45pm

Temp: 320°F

FIN: 12:15pm

10-01-13

(X3)

BR 10-01-13

(3)

SS 10/01/18

(3)

140



QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

150



Packaging

Packaging

Pick Kit

0.00

Memo

0.00



**Work Order ID 54295**

December 7, 2009 2:31:37 PM

Item ID: D412-769-044

Accept

Revision ID:

Item Name: Aft Facing Seat Assembly, RH

Start Date: 07/12/2009 Start Qty: 5.00

Required Date: 21/12/2009 Req'd Qty: 5.00

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start

Stop

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

190

QC21 - Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control



Setup Start

Stop



Cust Item ID:

Customer:

Run Start

Stop



10/01/25

CMF  
10-1-25



# Picklist Print

December 7, 2009 2:31:40 PM

Work Order ID: 54295

Parent Item: D412-769-044

Parent Item Name: Aft Facing Seat Assembly, RH

Start Date: 07/12/2009

Required Date: 21/12/2009

Start Qty: 5.00

Required Qty: 5.00

Comments:

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3-5A		Purchased	No			110	Each	2,043.000	30.0000		9/10/30	



Bolt

Warehouse	Location	Loc Qty	Loc Code
Main Warehouse	ST	2043	
	100188	188	
	105057	1855	
		110	

AN4-15A



Bolt

Purchased

No

Warehouse	Location	Loc Qty	Loc Code
Main Warehouse	ST	182	
	113121	182	
		110	

AN45-13A



EYE BOLT

Purchased

No

Warehouse	Location	Loc Qty	Loc Code
Main Warehouse	ST	31	
	109712	4	
	111975	27	

6+18 8810/01/07

9/10/30

2+4 8810/01/07

9/10/30

3 8810/01/07

## Picklist Print

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Work Order ID: 54295

Parent Item: D412-769-044

Parent Item Name: Aft Facing Seat Assembly, RH


Start Date: 07/12/2009

Required Date: 21/12/2009

Start Qty: 5.00

Required Qty: 5.00

Comments:

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN5-10A  Bolt		Purchased	No			110	Each	132.0000	30.0000		9/12/30 sf	

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST

132

107013

8

110363

2

112314

1

112933

38

113149

50

113255

33

110

Each

252.0000

10.0000



19  
4  
9/12/30 sf  
8 10/01/07

AN5-13A



Bolt

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST

252

104936

3

108167

8

110363

14

112492

10

112641

17

113237

200

6  
8 10/01/07

December 7, 2009 2:31:40 PM

Shop Packet Print

# Picklist Print

December 7, 2009 2:31:40 PM

Work Order ID: 54295

Parent Item: D412-769-044

Parent Item Name: Aft Facing Seat Assembly, RH

Comments:

Start Date: 07/12/2009

Required Date: 21/12/2009

Start Qty: 5.00

Required Qty: 5.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN525-10R24		Purchased	No			110	Each	146.0000	45.0000			
Screw												

113538 9/12/30 SF  
113538 8/10/107

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST	146	
109238	146	
Purchased	No	
	110	Each
	1,965.000	105.0000

9/10/30 SF

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST	1965	
105442	8	
109059	2	
109840	23	
110139	2	
110985	202	
111279	5	
111668	64	
112314	645	
112369	14	
113149	1000	

21  
63 88 10/10/107

Shop Packet Print

December 7, 2009 2:31:40 PM

Picklist Print

December 7, 2009 2:31:41 PM

Work Order ID: 54295

Parent Item: D412-769-044

Parent Item Name: Aft Facing Seat Assembly, RH


Start Date: 07/12/2009

Required Date: 21/12/2009

Start Qty: 5.00

Required Qty: 5.00

Comments:

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN960JD416		Purchased	No			110	Each	2,311.000	20.0000			
												
Washer												

NAS 1149 DO 463J

*[Handwritten signature]*

Warehouse  
Location  
Main Warehouse

Loc Qty

Loc Code

15

1112308 9/12/30 sf  
M 113288 83102/01/07

AN960JD516



Washer

Purchased

No

Warehouse  
Location  
Main Warehouse

Loc Qty

Loc Code

ST

1016

110363

46

110523

57

111279

39

112082

64

112314

14

112828

296

113149

500

45 1118 83102/01/07

Shop Packet Print

December 7, 2009 2:31:41 PM



## Picklist Print

December 7, 2009 2:31:41 PM

Work Order ID: 54295

Parent Item: D412-769-044

Parent Item Name: Aft Facing Seat Assembly, RH

Start Date: 07/12/2009

Required Date: 21/12/2009

Start Qty: 5.00

Required Qty: 5.00

Comments:

Component Item ID/  
Item NameReplacement  
Item IDMfg/  
PurchBin  
ItemPrimary  
LocationLast  
LocationRoute  
Seq IDUnit of  
MeasureQty on  
HandRemaining  
Qty To PickQty  
IssuedDate  
Issued

Status

D3766-2



Front Rail, RH

Manufactured

No

110

Each

3.0000

5.0000



9/10/30 SP

WarehouseLoc QtyLoc CodeLocation

B 54 382

③ SB 10/01/07

Main Warehouse

ST

3

3

110

Each

2.0000

5.0000



D3766-3



Rear Rail

Manufactured

No

WarehouseLoc QtyLoc CodeLocation

2

2 B 54 303

③ SN 10/01/13

Main Warehouse

ST

42873

110

Each

13.0000

5.0000



9/12/30 SP

D3767-1



Upper Rail

Manufactured

No

WarehouseLoc QtyLoc CodeLocation

13

3

10

Main Warehouse

ST

42874

48488

③ SB 10/01/07

Shop Packet Print

December 7, 2009 2:31:41 PM

## Picklist Print

December 7, 2009 2:31:41 PM

Work Order ID: 54295

Parent Item: D412-769-044

Parent Item Name: Aft Facing Seat Assembly, RH

Comments:

Start Date: 07/12/2009

Required Date: 21/12/2009

Start Qty: 5.00

Required Qty: 5.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3782-041		Manufactured	No			110	Each	4.0000	5.0000		9/10/09	③

D3782-041



Front Inboard Leg Assembly

Loc Qty

Loc Code

Warehouse

Location

Main Warehouse

ST

4

42839

2

42840

2

110

Each

3.0000

5.0000

Manufactured No

D412-044



Front Outboard Leg Assembly, RH

Loc Qty

Loc Code

Warehouse

Location

Main Warehouse

ST

3

46205

3

110

Each

4.0000

10.0000

Manufactured No

D412-045



Back Leg Assembly

Loc Qty

Loc Code

Warehouse

Location

Main Warehouse

ST

4

42832

2

42833

2

B54328

ss 10/01/09

Shop Packet Print

December 7, 2009 2:31:41 PM

## Picklist Print

December 7, 2009 2:31:41 PM

Work Order ID: 54295

Parent Item: D412-769-044

Parent Item Name: Aft Facing Seat Assembly, RH

Start Date: 07/12/2009

Required Date: 21/12/2009

Start Qty: 5.00

Required Qty: 5.00

## Comments:

Component Item ID/  
Item NameReplacement  
Item IDMfg/  
PurchBin  
ItemPrimary  
LocationLast  
LocationRoute  
Seq IDUnit of  
MeasureQty on  
HandRemaining  
Qty To PickQty  
IssuedDate  
Issued

Status

D3783-041

Lateral Brace Assembly

D3783-043

Longitudinal Brace Assembly

D3783-045

Angle Brace Assembly

Manufactured

No

110

Each

0.0000

5.0000

① 80 9/11/05

Manufactured

No

110

Each

0.0000

10.0000

B54329 3 80

Manufactured

No

110

Each

4.0000

5.0000

9/12/30 5/

## Warehouse

## Loc Qty

## Loc Code

## Location

Main Warehouse

ST

42852

42854

42855

B54331

4

1

2

1

110

Each

4.0000

5.0000

3

80 10/01/02

9/12/30 5/

D3784-041

Seat Support Assembly, Center

Manufactured

No

## Warehouse

## Loc Qty

## Loc Code

## Location

Main Warehouse

ST

45879

B54332

4

4

③

80 10/01/07

Shop Packet Print

December 7, 2009 2:31:41 PM



# Picklist Print

December 7, 2009 2:31:41 PM

Work Order ID: 54295

Parent Item: D412-769-044

Parent Item Name: Aft Facing Seat Assembly, RH

Comments:

Start Date: 07/12/2009

Required Date: 21/12/2009

Start Qty: 5.00

Required Qty: 5.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3784-043		Manufactured	No			110	Each	2.0000	5.0000	3		

Seat Support Assembly, LH

Warehouse	Location	Loc Qty	Loc Code
Main Warehouse	ST	2	
	42864	1	
	42865	1	

D3784-044

Seat Support Assembly, RH

Manufactured No

Warehouse	Location	Loc Qty	Loc Code
Main Warehouse	ST	2	
	42867	1	
	42868	1	

B54334

83 10/01/07

83 10/01/07

4

December 7, 2009 2:31:41 PM

Shop Packet Print



# Picklist Print

December 7, 2009 2:31:41 PM

Work Order ID: 54295

Parent Item: D412-769-044

Parent Item Name: Aft Facing Seat Assembly, RH


Comments:

Start Date: 07/12/2009

Required Date: 21/12/2009

Start Qty: 5.00

Required Qty: 5.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21042L3		Purchased	No			110	Each	2,759.000	45.0000		9/15/30	sf
												
Nut												

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST	2759	
109798	14	
110844	32	
111274	27	
111668	194	
112314	1992	
112385	500	

MS21042L4



Nut

Purchased

No

110

Each

4,135.000

10.0000



9/15/30

sf

27+500

SS 10/10/02

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST	4135	
110507	184	
111827	3951	
15924	0	

6

SS 10/10/02

December 7, 2009 2:31:41 PM

Shop Packet Print

**Picklist Print**

December 7, 2009 2:31:41 PM

Work Order ID: 54295

Parent Item: D412-769-044

Parent Item Name: Aft Facing Seat Assembly, RH

Start Date: 07/12/2009

Required Date: 21/12/2009

Start Qty: 5.00

Required Qty: 5.00

**Comments:**Component Item ID/  
Item NameReplacement  
Item IDMfg/  
PurchBin  
ItemPrimary  
LocationLast  
LocationRoute  
Seq IDUnit of  
MeasureQty on  
HandRemaining  
Qty To PickQty  
IssuedDate  
Issued

Status

AN525-10R22



Screw

Purchased

No

160

Each

171.0000

65.0000



9/12/30

sf

WarehouseLoc QtyLoc CodeLocation

Main Warehouse

SF

110139

171

171

160

Each

5,439.000

65.0000



27

9/12/30 sf

AN960JD10L



Washer

Purchased

No

WarehouseLoc QtyLoc CodeLocation

Main Warehouse

ST

101291

104885

105793

109632

110985

5439

16

153

236

276

4758

160

Each

2.0000

5.0000



13

39

88 10/01/13

D3774-1



Seat Bottom, LH/RH

Manufactured

No

WarehouseLoc QtyLoc CodeLocation

Main Warehouse

ST

46065

2

2

B 54311

88 10/01/13

Shop Packet Print

December 7, 2009 2:31:41 PM

# Picklist Print

December 7, 2009 2:31:41 PM

Work Order ID: 54295

Parent Item: D412-769-044

Parent Item Name: Aft Facing Seat Assembly, RH

Start Date: 07/12/2009

Required Date: 21/12/2009

Start Qty: 5.00

Required Qty: 5.00

## Comments:

Component Item ID/  
Item Name

Replacement  
Item ID

Mfg/  
Purch

Rtn  
Item

Primary  
Location

Last  
Location

Route  
Seq ID

Unit of  
Measure

Qty on  
Hand

Remaining  
Qty To Pick

Qty  
Issued

Date  
Issued

Status

D3774-3



Seat/Back, LH/RH

Manufactured

No

160

Each

2.0000

5.0000



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

46066

2

2

160

Each

31.0000

10.0000



~~B54638 B54638~~  
B 55383 10/01/13

9/12/30

D3775-1



Guard

Manufactured

No

Loc Qty

Loc Code

Warehouse

Location

Main Warehouse

ST

42875

44532

46048

31

1

10

20

160

Each

112.0000

15.0000



B 54391

8 10/01/13

9/12/30

D3792-1



Seat Belt Eye Bolt

Manufactured

No

Loc Qty

Loc Code

Warehouse

Location

Main Warehouse

ST

40880

41879

42020

112

17

45

50

3 8 10/01/13

Shop Packet Print

December 7, 2009 2:31:41 PM

## Picklist Print

December 7, 2009 2:31:41 PM

Work Order ID: 54295

Parent Item: D412-769-044

Parent Item Name: Aft Facing Seat Assembly, RH


Start Date: 07/12/2009

Required Date: 21/12/2009

Start Qty: 5.00

Required Qty: 5.00

Comments:

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21042L3		Purchased	No			160	Each	2,759.000	99.0000			
												
Nut												

9/10/130 SD

Warehouse	Loc Qty	Loc Code
Location		

Main Warehouse

ST	2759	
109798	14	
110844	32	
111274	27	
111668	194	
112314	1992	
112385	500	

160 Each 750.0000 60.0000

57

9/10/130 SD

MS21042L5



Nut

Purchased

No

Warehouse	Loc Qty	Loc Code
Location		

Main Warehouse

ST	750	
110382	10	
111636	11	
112314	729	

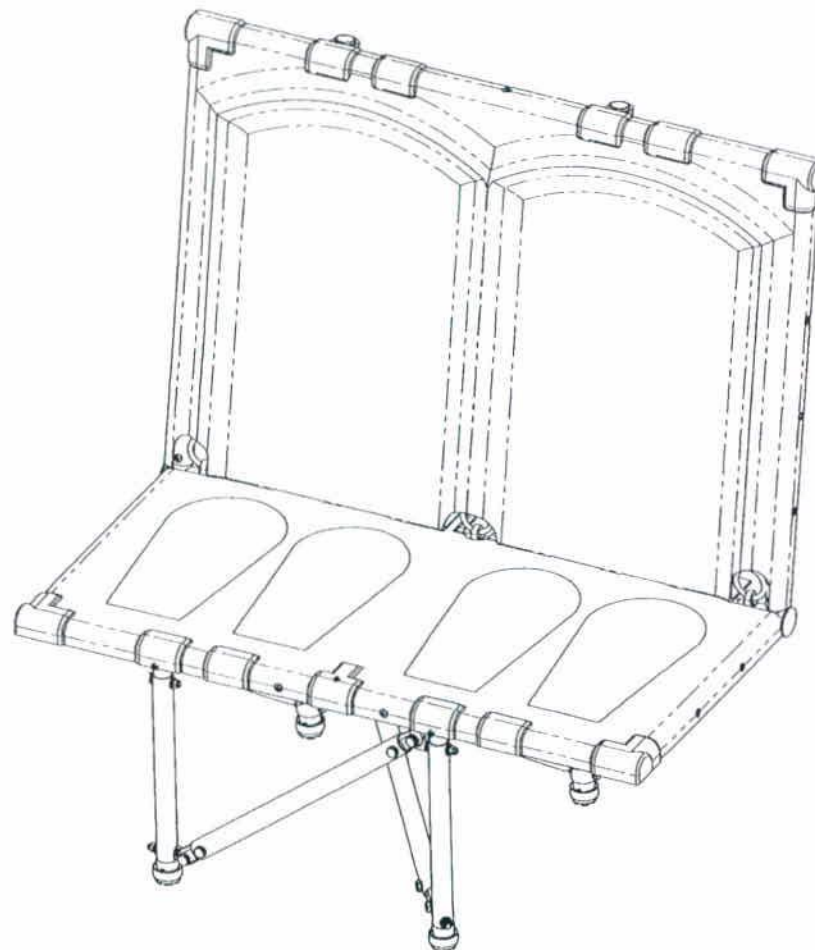
36

9/10/130 SD

December 7, 2009 2:31:41 PM

Shop Packet Print



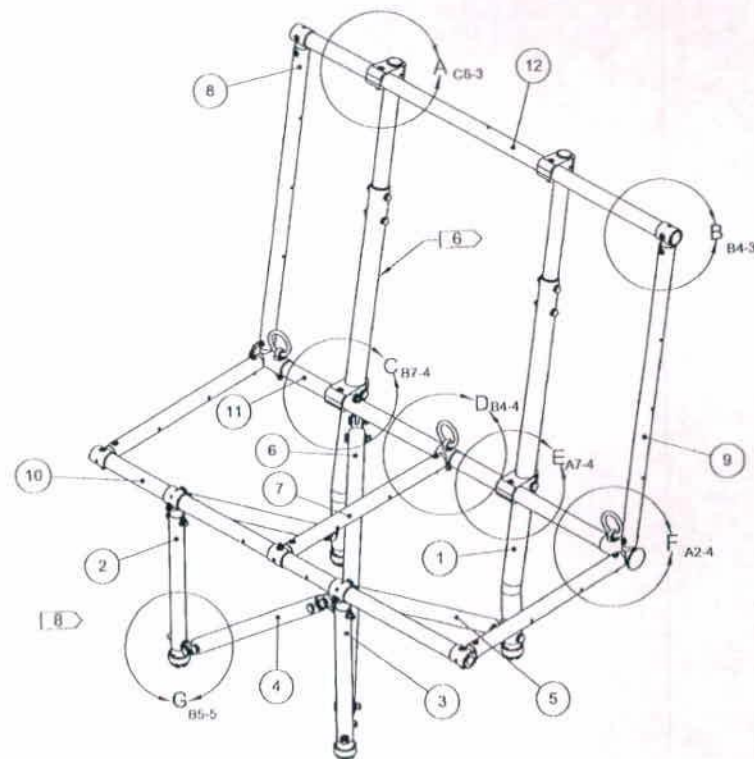


D412-769-044 AFT FACING SEAT, RH

RELEASE  
08-07-10/MP

B	NEW HARDWARE	HS	08.06.25
A	NEW ISSUE	HS	08.06.04
REV.	DESCRIPTION	BY	DATE
DESIGN	HS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	HS		
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D412-769-2	SHEET 1 OF 7
APPROVED		TITLE	SCALE
DE APPR.		AFT FACING SEAT ASSY, RH	NTS
DATE	08.06.25	<small>COPYRIGHT © 2008 BY DART AEROSPACE LTD  THE DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS  NOT TO BE REPRODUCED, COPIED, OR OTHERWISE DISCLOSED TO ANY OTHER PERSON OR ENTITY  WITHOUT PERMISSION FROM DART AEROSPACE LTD.</small>	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. (-044)
1	D3782-045	BACK LEG ASSY	2
2	D3782-041	FRONT INBOARD LEG ASSY	1
3	D3782-044	FRONT OUTBOARD LEG ASSY, RH	1
4	D3783-041	LATERAL BRACE ASSY	1
5	D3783-043	LONGITUDINAL BRACE ASSY	2
6	D3783-045	ANGLE BRACE ASSY	1
7	D3784-041	SEAT SUPPORT ASSY	1
8	D3784-043	SEAT SUPPORT ASSY, LH	1
9	D3784-044	SEAT SUPPORT ASSY, RH	1
10	D3766-2	FRONT RAIL, RH	1
11	D3766-3	REAR RAIL	1
12	D3767-1	UPPER RAIL	1
13	D3792-1	SEAT BELT EYE BOLT	3
14	D3775-1	GUARD	2
15	D3774-1	SEAT BOTTOM	1
16	D3774-3	SEAT BACK	1
17	AN3-5A	BOLT	6
18	AN4-15A	BOLT	2
19	AN45-13A	EYE BOLT	1
20	AN5-10A	BOLT	6
21	AN5-13A	BOLT	2
22	AN525-10R22	SCREW	13
23	AN525-10R24	SCREW	9
24	MS21042L3	NUT	28
25	MS21042L4	NUT	2
26	MS21042L5	NUT	12
27	NAS1149D0332J	WASHER (AN960JD10L)	13
28	NAS1149D0363J	WASHER (AN960JD10)	21
29	NAS1149D0463J	WASHER (AN960JD416)	4
30	NAS1149D0568J	WASHER (AN960JD516)	20



D412-769-044 AFT FACING SEAT, RH

RELEASED  
08-07-10

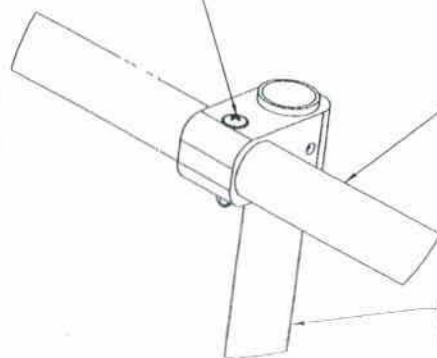
NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT "GREY SANDTEX" (4,3,5,6) PER DART QSI 005 4.3 PRIOR TO INSTALLATION OF SEAT BOTTOM/BACK (D3774-1, -3). MASK FRONT LEGS PRIOR TO POWDER COAT
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH D2729-1 RED DECAL ATTACHED TO BACK LEG ASSEMBLY (D3782-045)
- 7) WEIGHT: 30.0 lbs
- 8) ITEM 15 (D3774-1 SEAT BOTTOM) AND ITEM 16 (D3774-3 SEAT BACK) REMOVED FOR CLARITY

DESIGN	HS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	HS	
CHECKED	HS	DRAWING NO. D412-769-2
MFG. APPR.	HS	REV. B
APPROVED	HS	SHEET 2 OF 7
DE APPR.	HS	TITLE AFT FACING SEAT ASSY, RH
DATE	08.06.25	SCALE NTS

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AN525-10R24 SCREW (1)  
NAS1149D0363J WASHER (1)  
MS21042L3 NUT (1)

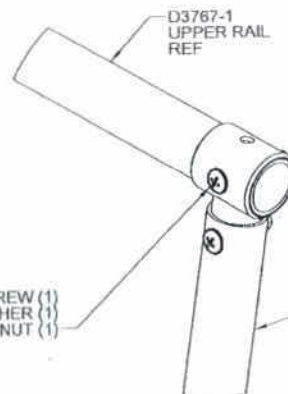


D3767-1  
UPPER RAIL  
REF

D3782-045  
BACK LEG ASSY  
REF

**DETAIL A<sub>D2-2</sub>**  
**UPPER RAIL TO BACK LEG ATTACHMENT**  
2 PL

AN525-10R24 SCREW (1)  
NAS1149D0363J WASHER (1)  
MS21042L3 NUT (1)



D3767-1  
UPPER RAIL  
REF

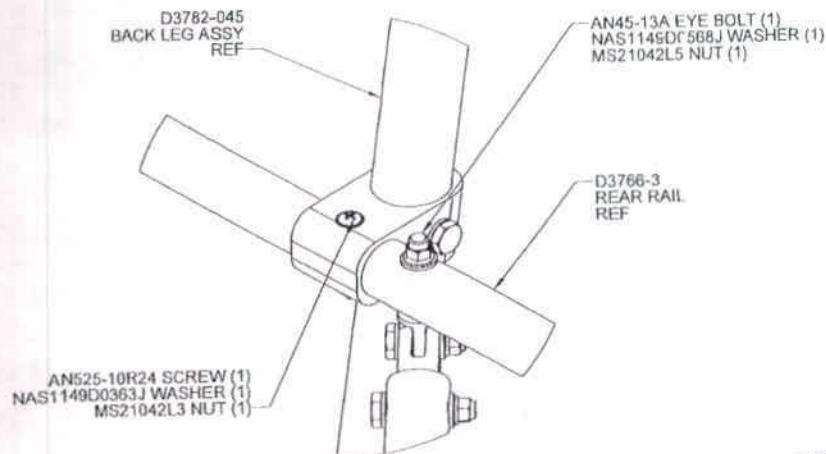
D3784-044  
SEAT SUPPORT ASSY, RH  
REF

**DETAIL B<sub>C1-2</sub>**  
**SEAT SUPPORT END ATTACHMENT (TYP)**  
5 PL

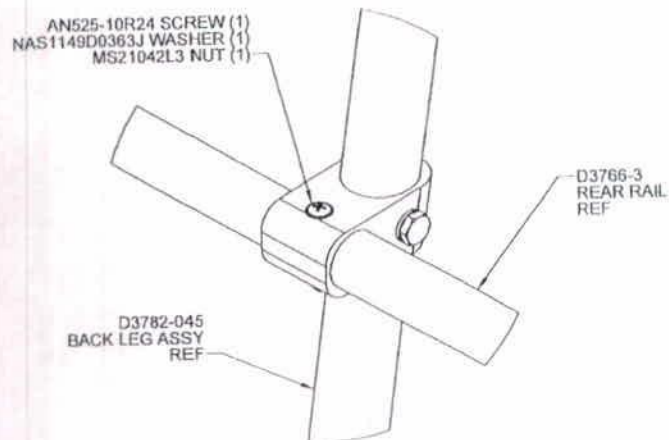
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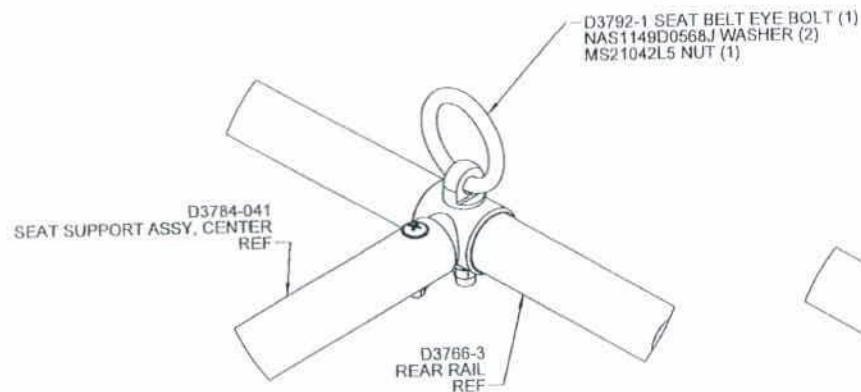




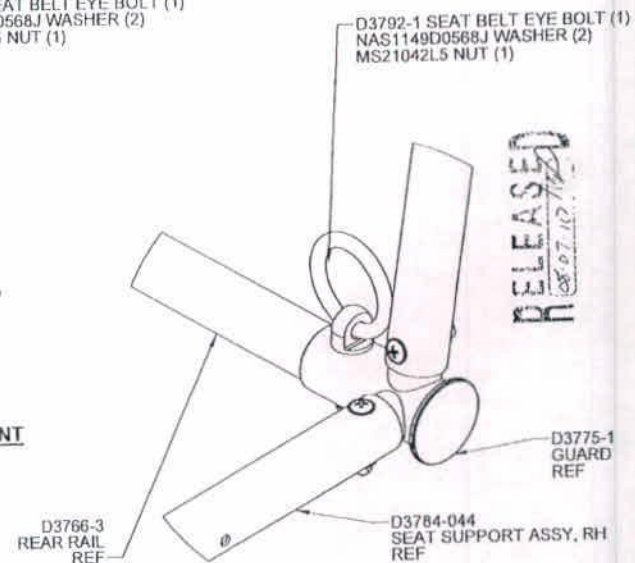
**DETAIL C C2-2**  
**REAR RAIL TO BACK LEG ATTACHMENT**



**DETAIL E C2-2**  
**REAR RAIL TO BACK LEG ATTACHMENT**



**DETAIL D C1-2**  
**SEAT SUPPORT ASSY, CENTER ATTACHMENT**

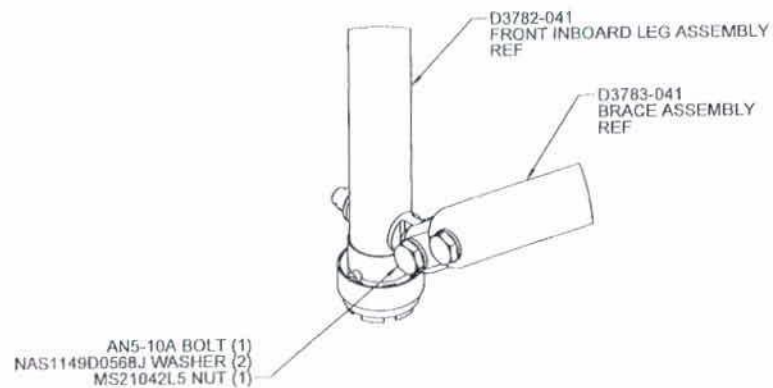


**DETAIL F B1-2**  
**SEAT SUPPORT ATTACHMENT**

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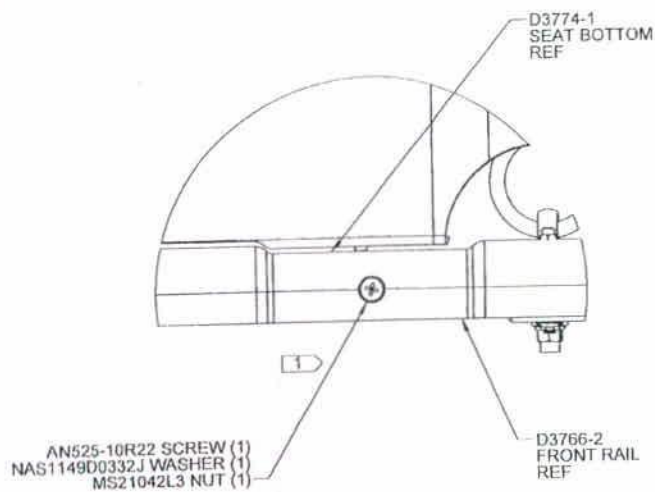




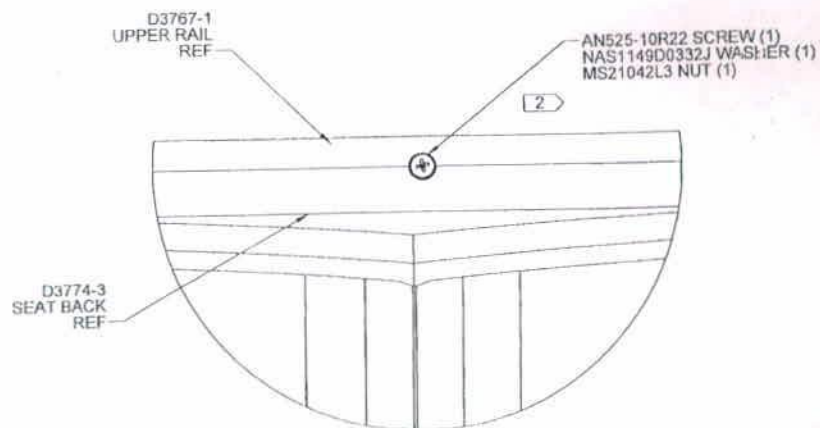
**DETAIL G<sub>B3-2</sub>**  
**BRACE ATTACHMENT**  
6 PL

RELEASE  
106-7-10-14 PV

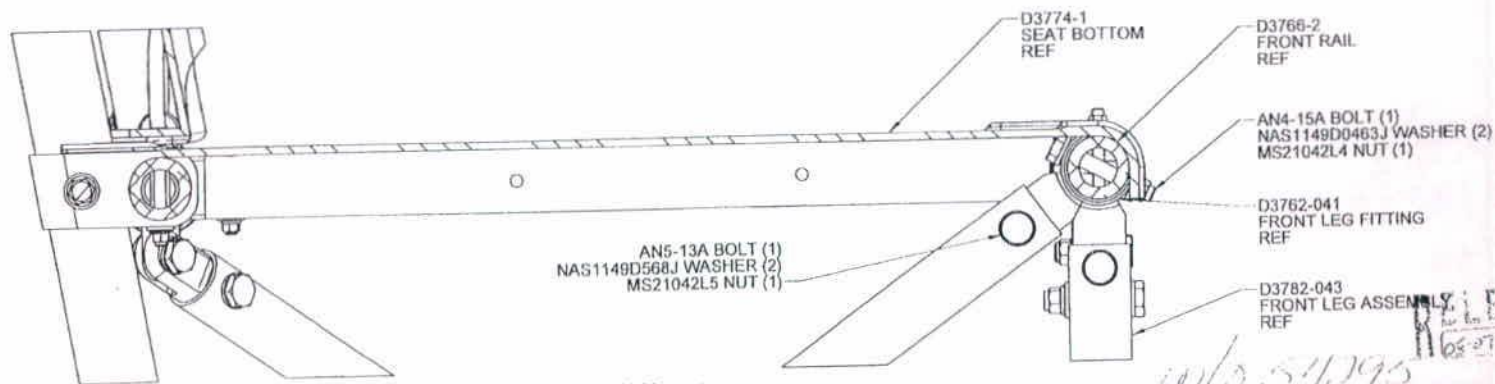
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**DETAIL L** B7-6  
**SEAT BOTTOM ATTACH - FRONT DETAIL**



**DETAIL M** D7-6  
**SEAT BACK ATTACH - TOP DETAIL**



**SECTION N-N** B7-6  
**FRONT LEG AND LONGITUDINAL ANGLE ATTACHMENT**

- NOTES:**  
1) TRANSFER DRILL HOLES  $\phi 0.201$  FROM FRONT RAIL (D3766-2) TO SEAT BOTTOM (D3774-1) - 2 PL  
2) TRANSFER DRILL HOLES  $\phi 0.201$  FROM UPPER RAIL (D3767-1) TO SEAT BACK (D3774-3) - 1 PL

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# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. 3

REF TCCA STC: SH04-7  
REF FAA STC: SR01997NY  
REF EASA STC: EASA.IM.R.S.00710

## PURPOSE:

Update the D412-702-041A/045A/-041B/-045B kits for compatibility with the Dart D412-769-011 Aft Facing Seat Kit.

## CHANGE:

Quantity (1) each of D412-702-111A/-113A is replaced with D412-702-121A/-123A. Also Qty (4) x AN4-27A bolts are added to the kits for compatability with the Dart seat. When installing the AN4 bolts in the Dart seat, open the Ø0.188" holes to Ø0.257" (see sheet 4 detail J of this service instruction for reference). Alternate nuts added (see flag note 2 & 3, sheet 4). The parts list in section 25.28 (pg. 87) of ICA-D412-702 Rev. 3 and section 7.0 (pg. 38) of IIN-D412-702 Rev. E is amended as follows:

QTY	QTY	QTY	QTY	QTY	PART NUMBER	DESCRIPTION
-041A	-043A	-045A	-047A	-049A		
X					D412-702-041A	Dart 13-Man 3-Point Shoulder Harness Kit
		X			D412-702-045A	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit

## IS:

1		1			D412-702-111A	HARNESS ASSEMBLY (EXISTING)
1		1			D412-702-121A	HARNESS ASSEMBLY (NEW)
1*		1*			D3570-3	BRACKET
1*		1*			D3579-043	SHOULDER HARNESS
4*		4*			MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
1*		1*			MS21042L3	NUT
1*		1*			D3569-1	DECAL
1		1			D412-702-113A	HARNESS ASSEMBLY (EXISTING)
1		1			D412-702-123A	HARNESS ASSEMBLY (NEW)
1*		1*			D3570-4	BRACKET
1*		1*			D3579-044	SHOULDER HARNESS
4*		4*			MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
1*		1*			MS21042L3	NUT
1*		1*			D3569-2	DECAL
4		4			AN4-27A	BOLT (NEW)

## WAS:

2		2			D412-702-111A	HARNESS ASSEMBLY
2		2			D412-702-113A	HARNESS ASSEMBLY

\* DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

**ADD FLAG NOTES 2 AND 3**

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

**APPROVED**

BY: \_\_\_\_\_  
D. SHEPHERD (DE # 02)

DATE: \_\_\_\_\_ 09.12.10  
CERT. NO.: \_\_\_\_\_ SH04-7  
ISSUE NO.: \_\_\_\_\_ 3

B	ADD NOTE TO OPEN AN3 HOLES TO AN4	CP	09.11.10
A	NEW ISSUE, NCR 09-068	CP	09.06.30
REV.	DESCRIPTION	BY	DATE
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sheets



The parts list in section 25.28 (pg. 93) of ICA-D412-702 Rev. 3 and section 7.0 (pg. 40) of IIN-D412-702 Rev. E is amended as follows:

QTY -041B	QTY -043B	QTY -045B	QTY -047B	QTY -049B	PART NUMBER	DESCRIPTION
X					D412-702-041B	Dart 13-Man 3-Point Shoulder Harness Kit
		X			D412-702-045B	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit

IS:

1		1			D412-702-111B	HARNESS ASSEMBLY (EXISTING)
1		1			D412-702-121B	HARNESS ASSEMBLY (NEW)
1*		1*			D3570-3	BRACKET
1*		1*			D3579-047	SHOULDER HARNESS
4*		4*			MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
1*		1*			MS21042L3	NUT
1*		1*			D3569-3	DECAL
1		1			D412-702-113B	HARNESS ASSEMBLY (EXISTING)
1		1			D412-702-123B	HARNESS ASSEMBLY (NEW)
1*		1*			D3570-4	BRACKET
1*		1*			D3579-048	SHOULDER HARNESS
4*		4*			MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
1*		1*			MS21042L3	NUT
1*		1*			D3569-3	DECAL
4		4			AN4-27A	BOLT (ADD)

WAS:

2		2			D412-702-111B	HARNESS ASSEMBLY
2		2			D412-702-113B	HARNESS ASSEMBLY

\* DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

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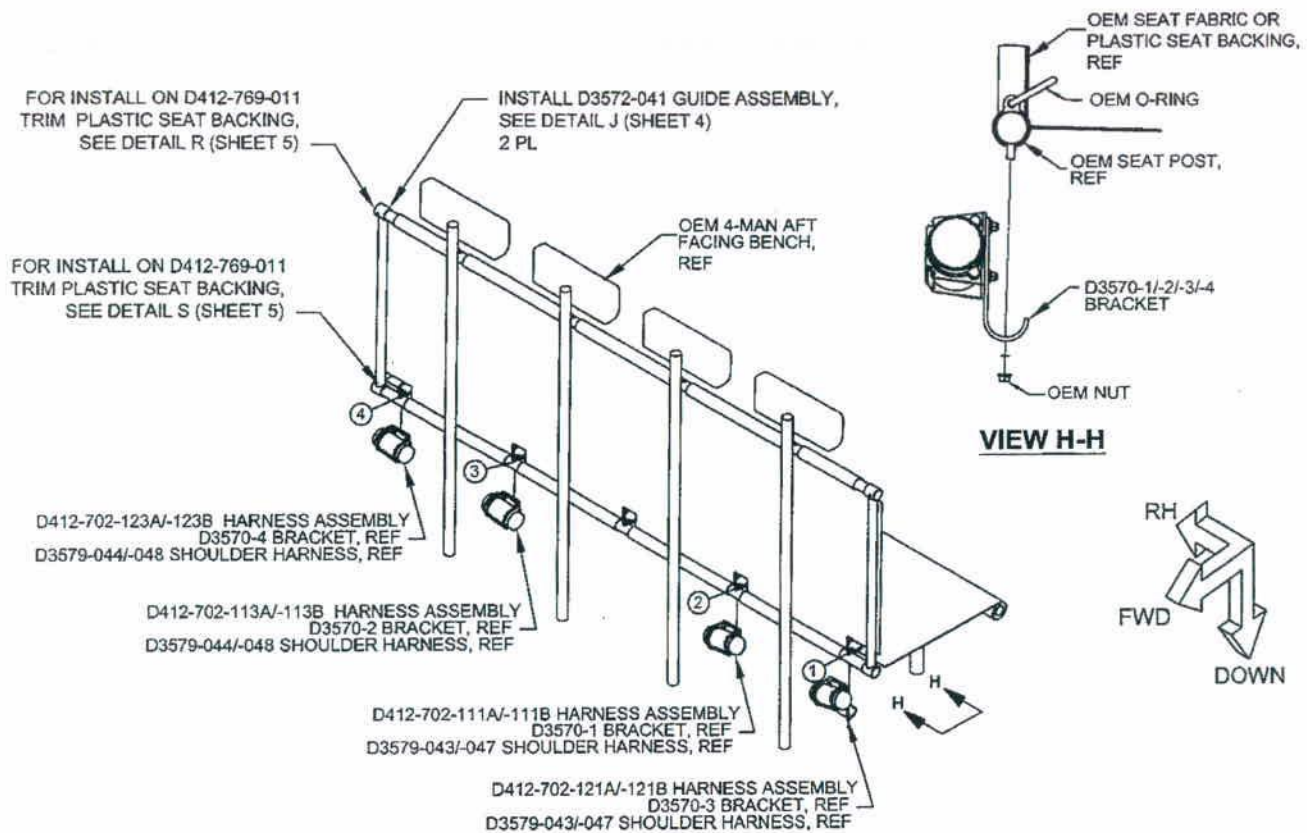
BY: \_\_\_\_\_  
D. SHEPHERD (DE # 02)

DATE: 09.12.10  
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Figures 4.8 (pg. 25) of IIN-D412-702 Rev. E and 25.12 (pg. 69) of ICA-D412-702 Rev. 3 are updated as follows:



**FIGURE 4.8. SHOULDER BELT INSTALLATION**

**FIGURE 25.12 D412-702-045A/-045B 4-MAN 3-POINT AFT FACING SHOULDER HARNESS KIT**

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BY: D. SHEPHERD (DE # 02)

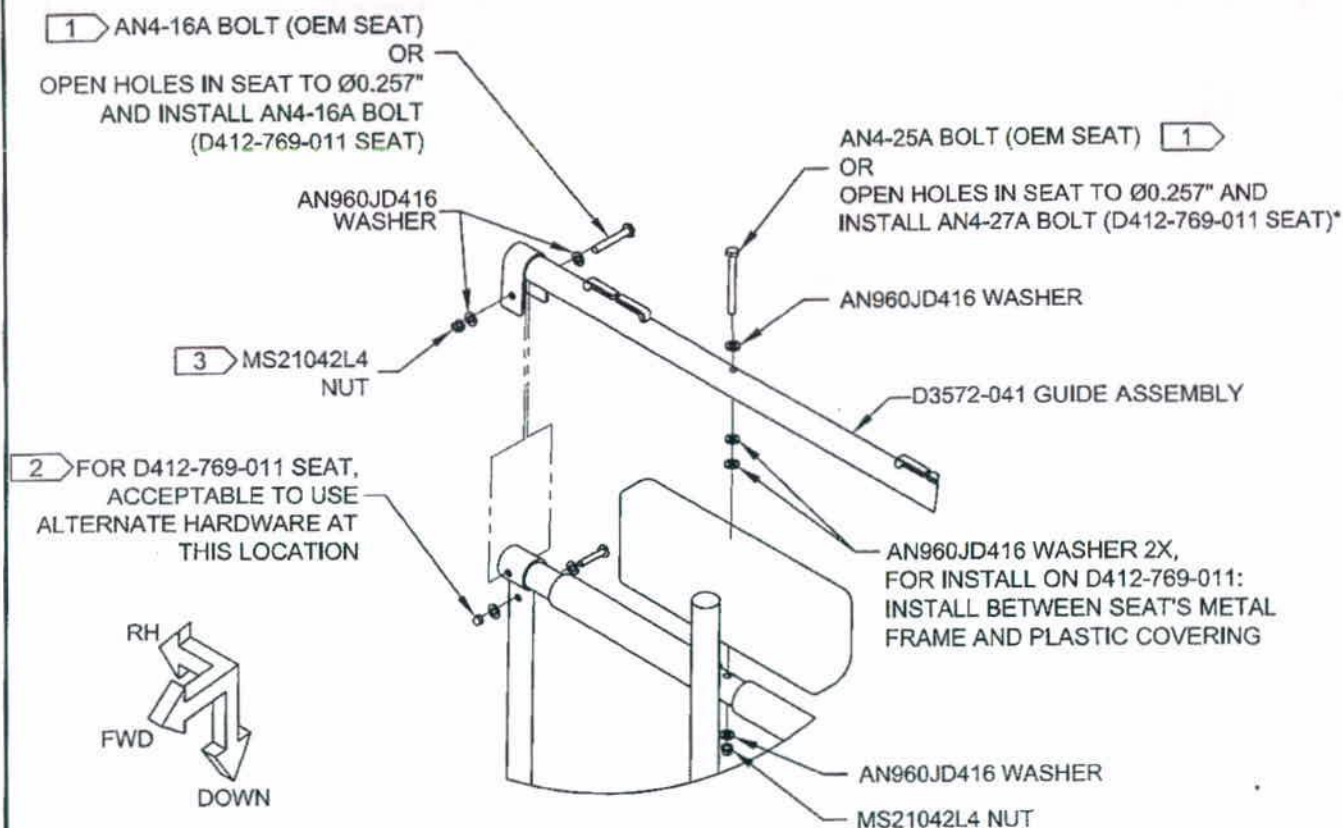
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**DETAIL J: D3572-041 INSTALLATION**  
(RH SHOWN, LH OPPOSITE)

- 1 ACCEPTABLE TO USE LONGER/SHORTER AN4 BOLTS,  
ADD ADDITIONAL AN960JD416 WASHERS, OR SUBSTITUTE  
AN960JD416L WASHERS TO ENSURE 1.5-2 THREADS IN SAFETY
- 2 ACCEPTABLE TO USE MS51865-6C AS ALTERNATE NUT. IF ALT NUT IS  
USED, ADD ~~ONE (1) AN960JD416 WASHER (HEAD BOLT SIDE)~~  
TO ENSURE PROTRUDING THREADS MEASURE 0.16 MIN, 0.19 MAX.  
(BEFORE NUT INSTALLATION)
- 3 ACCEPTABLE TO USE MS51865-8C AS ALTERNATE NUT. IF ALT NUT IS  
USED, ADD ~~ONE (1) AN960JD416 WASHER (HEAD BOLT SIDE)~~  
TO ENSURE PROTRUDING THREADS MEASURE 0.20 MIN, 0.25 MAX.  
(BEFORE NUT INSTALLATION)  
~~ADD ONE (1) ADDITIONAL AN960JD416L WASHER IF REQUIRED.~~
- Additional AN960JD416/10L  
washers on the nut side*
- Additional AN960JD416/416L  
washers on the nut side*

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DAO # 01-O-01

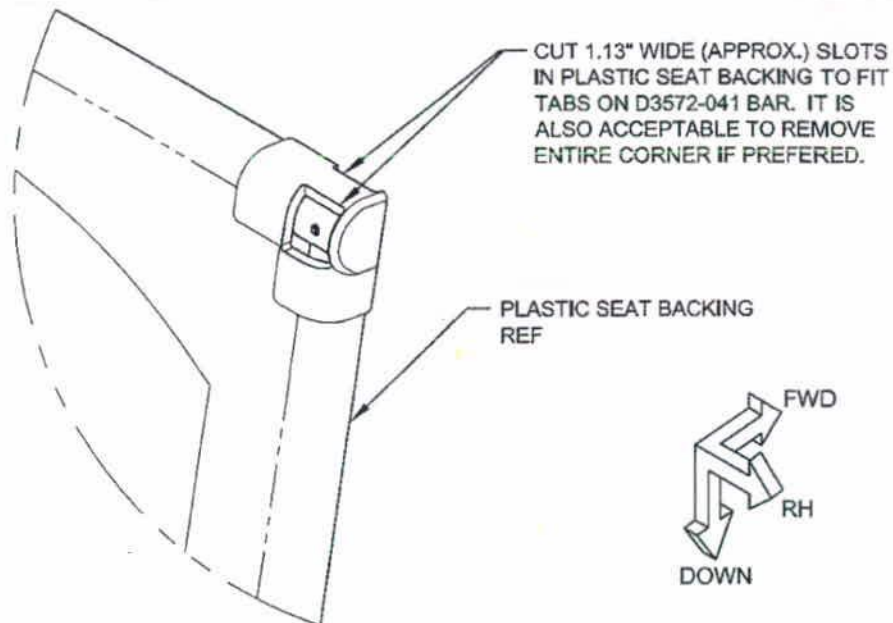
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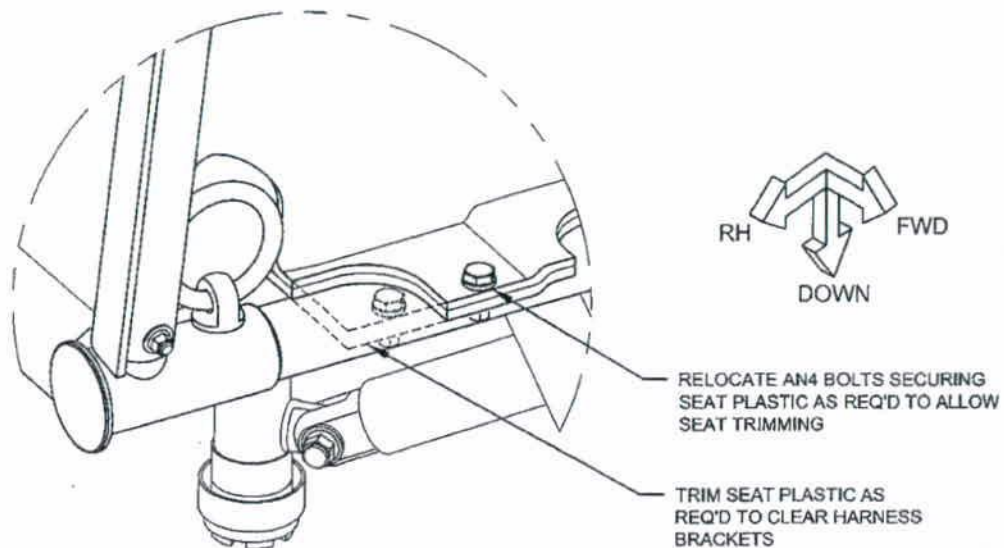
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#### DETAIL R

VIEW LOOKING AT FRONT OF SEAT BACKING, TOP-RH CORNER SHOWN (TOP-LH CORNER SIMILAR),  
FOR INSTALL ON D412-769-011 ONLY



#### DETAIL S

VIEW LOOKING AT REAR OF SEAT, BOTTOM-RH CORNER SHOWN (BOTTOM-LH CORNER SIMILAR),  
FOR INSTALL ON D412-769-011 ONLY

CANADA  
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AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-Q-01  
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BY: D. SHEPHERD (DE # 02)

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